

Creating a Sustainability Movement in Higher Education

University of South Carolina and Johnson Controls

Presented by Russell Holly

Players

- University of South Carolina
- Rebuild America
- National Energy Foundation(NEF)
- Johnson Controls

Collaboration

- Unique opportunity for all involved
- U of SC: New West Quad
- Student awareness
- Public awareness
- Sustainability

The Buildings

- Four Dormitory Buildings (West Quad)
- Learning Center

West Quad Project

- \$30.9M project cost -\$25M const. cost
- 177,000 SF \$141.24/sf
- Same budget & time
- 502 bed spaces 4 buildings
- Residential, office, academic & retail spaces
- Goal of LEED Silver –
 Applying for LEED Gold

- <1% Increase in construction costs</p>
- Additional design fees
 - \$90,640
- LEED documentation
 - \$8,000
- Commissioning
 - \$91,100

The Learning Center for Sustainable Futures

- Key component of the project for both University instruction and externallyfocused environmental education
- \$1.7M 9,000+ sq ft
- Three seminar rooms, conference room, faculty offices, project rooms, kitchen
- Educational displays
- Fuel cell / turf roof / light towers
- Faculty Director

Promoting Sustainability

- Optimal target market
- Increase awareness among students
- Create 'green' occupants
- Peer pressure

Johnson Controls Involvement

- Implemented matching grants for three K-12 school districts in South Carolina for energy and environmental awareness
- Focused on the last 5% of savings through behavior modification
- Higher education was next logical step

Who

- Michael Koman Housing
- Dr. Kirsten Dow Professor
- Terry Adkins Johnson Controls
- Resident Advisors (RAs)
- Students

Awareness Program

- Activities
- Hands-on Learning
- Incentives
- Competition

Accomplishments

- Trained 13 RAs / 500+ students
- Provided technology tool box to RAs
- Light bulb exchange campaign
- Offered mini-grants for larger awareness projects
- Offered prizes to best individual / suite / floor

Technology Tool Box

- Provided a 'green' tool box to resident advisors to train their students
 - Recycled products
 - Low-wattage night lights
 - Rechargeable batteries
 - Plug-load analyzer
 - Project ideas
 - Posters
 - More...

Key Ingredients

- Enthusiasm from faculty
- Communication
- Immersion
- Incentives
- Competition

Conclusions

- Recognition and awards will be completed on Earth Day
- Sustainability foundation completed for next school year
- Reinforced sustainability for 500+ endusers
- Win-win-win for all

Questions?

Contacts

Russell Holly

Performance
Assurance Manager
Johnson Controls, Inc.

770-870-2623

Russell.R.Holly@jci.com

Michael Koman

Environmental

Programs Manager

University of South Carolina

803-777-1986

Kornanmd@gwm.sc.edu

Contacts

Dr. Kirsten Dow

Director, Living-Learning Center for Sustainable Futures University of South Carolina

803-777-2482

KDow@sc.edu